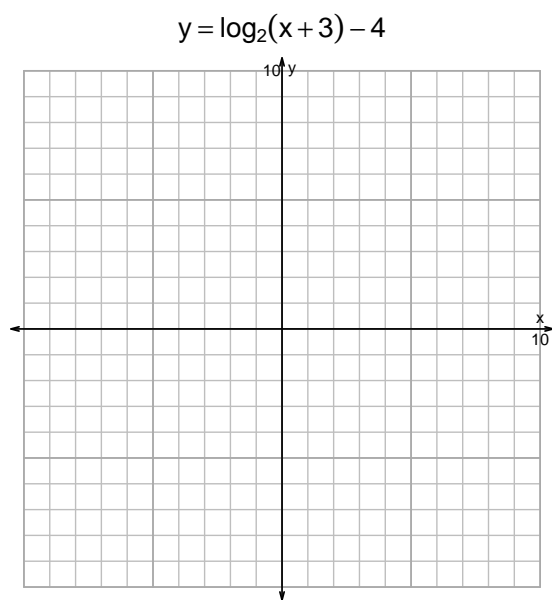
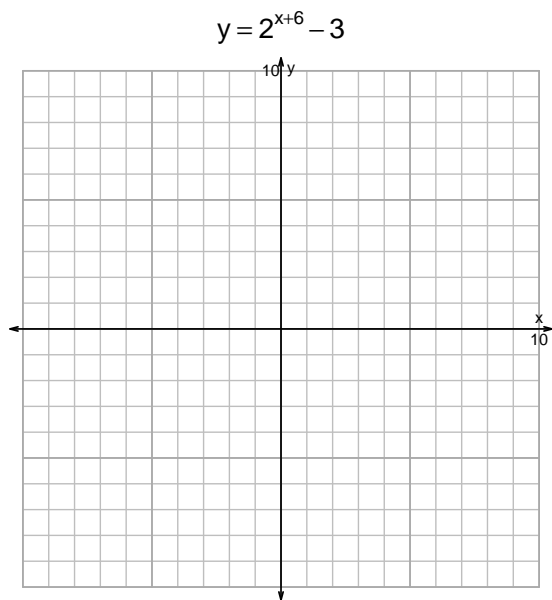


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v296)

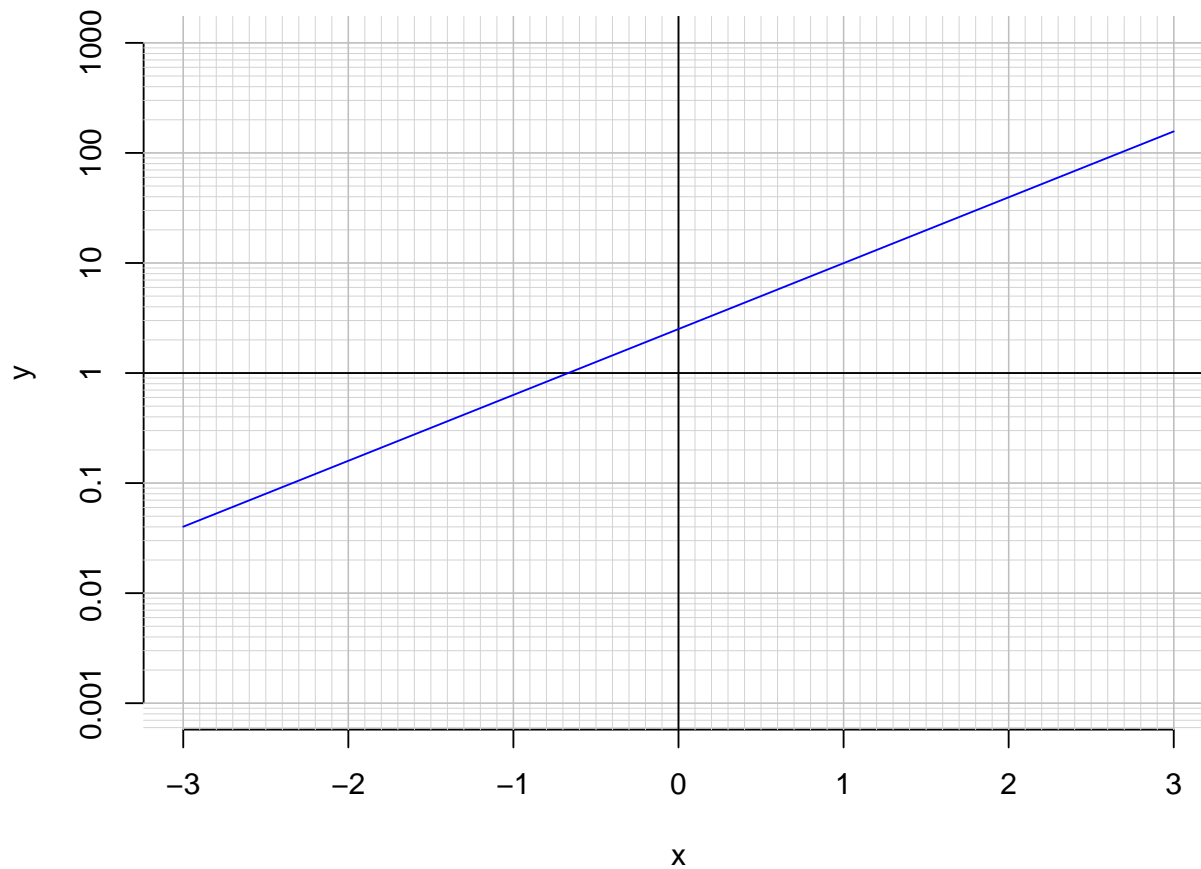
1. Graph $y = 2^{x+6} - 3$ and $y = \log_2(x + 3) - 4$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-29 = \left(\frac{-3}{5}\right) \cdot 10^{-4t/7}$$

3. An exponential function $f(x) = 2.51 \cdot e^{1.38x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(-2.5)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(30)$.